



Secretariat

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**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 5 February 2015 from the Permanent Mission
of the United States of America to the United Nations (Vienna)
addressed to the Secretary-General**

The Permanent Mission of the United States of America to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on objects launched into outer space by the United States for the period from January to June 2014 (see annexes I-VI).

The United States requests that the space objects contained in the annexes to this document be placed on the Register of Objects Launched into Outer Space maintained by the United Nations. In submitting this request, the United States notes that, consistent with its long-standing registration practice, the United States is not necessarily a launching State for each of the space objects it registers. The United States makes this request in the spirit of contributing to the practical effectiveness of the treaties and is providing information to the greatest extent practicable.

V.15-05114 (E) 300715 310715



Please recycle The recycling symbol, consisting of three chasing arrows forming a triangle.

Annex I

Registration data on space launches by the United States of America for January 2014*

The following report supplements the registration data on United States space launches as at 31 January 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Basic orbital characteristics				General function of the space object	
			Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)		Perigee (km)
The following objects were launched since the last report and remain in orbit								
2014-002B	Falcon 9 R/B	6 January 2014	—	1 990.0	22.4	91 600	458	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2014-003A	Cygnus Orb-1	9 January 2014	—	92.6	51.6	407	402	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-004A	TDRS 12	24 January 2014	—	749.0	25.4	34 732	4 682	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-004B	Atlas 5 R/B	24 January 2014	—	656.0	23.6	34 732	4 682	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report								
None.								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 January 2014								
None.								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 January 2014								
2014-003B	Antares R/B	9 January 2014	—	89.0	51.7	244	214	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 January 2014								
None.								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

* The registration data are reproduced in the form in which they were received.

Annex II

Registration data on space launches by the United States of America for February 2014*

The following report supplements the registration data on United States space launches as at 28 February 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics			General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	
The following objects were launched since the last report and remain in orbit							
1998-067DG	Flock 1-3	11 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DH	Flock 1-1	11 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DJ	Flock 1-2	11 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DK	Flock 1-4	11 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DL	Flock 1-5	12 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DM	Flock 1-6	12 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DN	Flock 1-7	13 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DP	Flock 1-8	13 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DQ	Flock 1-9	14 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DR	Flock 1-10	14 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DS	Flock 1-11	14 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DT	Flock 1-12	14 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403
1998-067DU	Flock 1-13	15 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403

* The registration data are reproduced in the form in which they were received.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
1998-067DV	Flock 1-14	15 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067DW	Flock 1-15	15 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067DX	Flock 1-16	15 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-008A	Navstar 69	21 February 2014	—	359 2	43 3	20 469	251	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-008B	Delta 4 R/B	21 February 2014	—	755 0	54 7	21 714	20 472	Spacecraft engaged in practical applications and uses of space technology such as weather or communications Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1998-067DY	Flock 1-17	25 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067DZ	Flock 1-18	25 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EC	Flock 1-19	26 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067ED	Flock 1-20	26 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EA	Flock 1-21	26 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EB	Flock 1-22	26 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EE	Flock 1-23	27 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EF	Flock 1-24	27 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EG	Flock 1-25	27 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EH	Flock 1-26	27 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EJ	Flock 1-27	28 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EK	Flock 1-28	28 February 2014	Deployed off ISS (Kibo)	92 79	51 66	418	403	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067EL	SkyCube	28 February 2014	Deployed off ISS (Kibo)	92 8	51 6	416	407	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects not previously reported have been identified since the last report								
None								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 28 February 2014								
None								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 28 February 2014								
None								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 28 February 2014								
1961-017B, 2014-003A								
The following objects were launched since the last report but did not achieve orbit								
None								
Revisions that should be made to previously reported data								
None								

Annex III

Registration data on space launches by the United States of America for March 2014*

The following report supplements the registration data on United States space launches as at 31 March 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit								
None								
The following objects not previously reported have been identified since the last report.								
None								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 March 2014								
None								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 March 2014.								
None								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 March 2014								
2000-042B								
The following objects were launched since the last report but did not achieve orbit								
None.								
Revisions that should be made to previously reported data								
None.								

* The registration data are reproduced in the form in which they were received.

Annex IV

Registration data on space launches by the United States of America for April 2014*

The following report supplements the registration data on United States space launches as at 30 April 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit								
2014-015A	USA 249	3 April 2014	-	101.8	98.8	869	854	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-015B	Centaur R/B	3 April 2014	-	101.8	98.8	869	854	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2014-020A	USA 250	10 April 2014	-	774.4	11.9	35 151	7 965	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-020B	Centaur R/B	10 April 2014	-	774.4	11.9	35 151	7 965	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2014-022A	Dragon CRS-3	18 April 2014	-	91	51.6	346	316	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-022B	SporeSat	18 April 2014	-	90.1	51.6	346	314	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-022C	TSAT	18 April 2014	-	90.9	51.6	346	314	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-022D	All Star/Theia	18 April 2014	-	90.9	51.6	346	314	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-022E	PhoneSat 2.5	18 April 2014	-	90.9	51.7	346	315	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report								

* The registration data are reproduced in the form in which they were received.

International designation	Basic orbital characteristics					
	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km) Perigee (km) General function of the space object
The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 April 2014						
None	The following objects were launched since the last report but did not achieve orbit					
None	Revisions that should be made to previously reported data					
None						

Annex V

Registration data on space launches by the United States of America for May 2014*

The following report supplements the registration data on United States space launches as at 31 May 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit								
2014-026A	USA 251	17 May 2014	-	729.2	55.0	20 481	20 450	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-026B	Delta 4 R/B	17 May 2014	-	735.9	55.1	20 801	20 460	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2014-027A	USA 252	22 May 2014	-	644.5	28.7	35 844	831	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report								
None								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 May 2014								
None								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 May 2014								
None								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 May 2014								
1960-016A, 2014-002B, 1998-067DG, 1998-067DJ, 1998-067DP, 1998-067DW, 1998-067DY, 1998-067EA, 1998-067EJ, 2014-022A, 2014-022C, 2014-022D								
The following objects were launched since the last report but did not achieve orbit								
None								
Revisions that should be made to previously reported data								
None								

* The registration data are reproduced in the form in which they were received.

Annex VI

Registration data on space launches by the United States of America for June 2014*

The following report supplements the registration data on United States space launches as at 30 June 2014. All launches were made from the territory of the United States unless otherwise specified.

International designation	Basic orbital characteristics						General function of the space object
	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)
The following objects were launched since the last report and remain in orbit							
2014-033J	Aprizesat 9	19 June 2014	—	98.0	97.9	715	613
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033K	Aprizesat 10	19 June 2014	—	98.2	97.9	734	613
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033P	Flock 1C 10	19 June 2014	Yasny, Russian Federation	96.9	97.9	623	602
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033S	Flock 1C 7	19 June 2014	Yasny, Russian Federation	96.9	97.9	622	603
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033T	Flock 1C 1	19 June 2014	Yasny, Russian Federation	96.9	97.9	622	602
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033V	Flock 1C 2	19 June 2014	Yasny, Russian Federation	96.9	97.9	625	602
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033X	Flock 1C 4	19 June 2014	Yasny, Russian Federation	96.9	97.9	624	601
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033Z	Flock 1C 11	19 June 2014	Yasny, Russian Federation	96.9	97.9	624	603
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AB	Flock 1C 9	19 June 2014	Yasny, Russian Federation	96.9	97.9	624	604
							Spacecraft engaged in practical applications and uses of space technology such as weather or communications

* The registration data are reproduced in the form in which they were received.

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International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2014-033AC	Flock 1C 6	19 June 2014	Yasny, Russian Federation	96.9	97.9	624	604	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AE	Flock 1C 5	19 June 2014	Yasny, Russian Federation	96.9	97.9	626	602	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AG	Flock 1C 8	19 June 2014	Yasny, Russian Federation	96.9	97.9	626	604	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AH	Flock 1C 3	19 June 2014	Yasny, Russian Federation	96.9	97.9	626	604	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AL	Lemur 1	19 June 2014	Yasny, Russian Federation	97.8	97.9	698	610	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AM	Aerocube 6A	19 June 2014	Yasny, Russian Federation	97.8	97.9	698	610	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2014-033AN	Aerocube 6B	19 June 2014	Yasny, Russian Federation	97.8	97.9	701	613	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report								
None								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 30 June 2014								
None								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 30 June 2014								
None								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 June 2014								
1998-067DL, 1998-067EC, 1998-067EK, 2014-022B, 1998-067DN, 1998-067EB, 1998-067DH, 1998-067DM, 1998-067DR, 1998-067DS, 1998-067EH, 1975-038D, 1961-015LJ, 1998-067DK, 1998-067DV, 1998-067DX, 1998-067EF, 1998-067EG, 2004-017B								
The following objects were launched since the last report but did not achieve orbit								
None								
Revisions that should be made to previously reported data								
None								



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**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 10 February 2015 from the Permanent Mission
of the United Kingdom of Great Britain and Northern Ireland to
the United Nations (Vienna) addressed to the Secretary-General**

The Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information on space objects O3b FM9, O3b FM10, O3b FM11 and O3b FM12 (see annex).

V.15-05108 (E) 280715 290715



Please recycle The text "Please recycle" followed by a universal recycling symbol consisting of three chasing arrows forming a triangle.

Annex**Registration data on space objects launched by the United Kingdom of Great Britain and Northern Ireland*****O3b FM9****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	2014-083D
Name of space object:	O3b FM9 (known as M009)
State of registry:	United Kingdom
National designator/registration number as used by State of registry:	40351
Date and territory or location of launch:	18 December 2014 1837 hrs UTC Guiana Space Centre, Kourou, French Guiana

Basic orbital parameters

Nodal period:	287.9 minutes
Inclination:	0.03 degrees
Apogee:	8,070 kilometres
Perigee:	8,060 kilometres

General function of space object:	Communications
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Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website:	www.o3bnetworks.com
Space object owner or operator:	O3b Limited
Launch vehicle:	Soyuz

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

O3b FM10**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator: 2014-083A

Name of space object: O3b FM10 (known as M010)

State of registry: United Kingdom

National designator/registration number as used by State of registry: 40348

Date and territory or location of launch: 18 December 2014 1837 hrs UTC
Guiana Space Centre, Kourou,
French Guiana

Basic orbital parameters

Nodal period: 287.9 minutes

Inclination: 0.03 degrees

Apogee: 8,070 kilometres

Perigee: 8,060 kilometres

General function of space object: Communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website: www.o3bnetworks.com

Space object owner or operator: O3b Limited

Launch vehicle: Soyuz

O3b FM11**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator: 2014-083B

Name of space object: O3b FM11 (known as M011)

State of registry: United Kingdom

National designator/registration number as used by State of registry: 40349

Date and territory or location of launch: 18 December 2014 1837 hrs UTC
Guiana Space Centre, Kourou,
French Guiana

Basic orbital parameters

Nodal period:	287.9 minutes
Inclination:	0.03 degrees
Apogee:	8,070 kilometres
Perigee:	8,060 kilometres

General function of space object:	Communications
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Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website:	www.o3bnetworks.com
Space object owner or operator:	O3b Limited
Launch vehicle:	Soyuz

O3b FM12**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	2014-083C
Name of space object:	O3b FM12 (known as M012)
State of registry:	United Kingdom
National designator/registration number as used by State of registry:	40350
Date and territory or location of launch:	18 December 2014 1837 hrs UTC Guiana Space Centre, Kourou, French Guiana

Basic orbital parameters

Nodal period:	287.9 minutes
Inclination:	0.03 degrees
Apogee:	8,070 kilometres
Perigee:	8,060 kilometres

General function of space object:	Communications
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Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website:	www.o3bnetworks.com
Space object owner or operator:	O3b Limited
Launch vehicle:	Soyuz



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**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 11 February 2015 from the Permanent Mission
of China to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of China to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on two space launches by Hong Kong, China (see annex).

V.15-05393 (E) 060815 070815



Please recycle The recycling symbol, consisting of three chasing arrows forming a triangle.

Annex

Registration data on space objects launched by Hong Kong, China***AsiaSat 8**

Name of the space object:	AsiaSat 8
Owner/operator:	Asia Satellite Telecommunications Limited 12/F Harbour Centre, 25 Harbour Road, Wanchai, Hong Kong, China
International designation:	2014-046A
Date and location of the launch:	5 August 2014 UTC Cape Canaveral Air Force Station, Florida, United States of America
Nodal period:	23 hours 56 minutes 4 seconds
Inclination:	± 0.1 degrees
Apogee:	35,796 kilometres
Perigee:	35,775 kilometres
Orbital position:	105.5 degrees East
General function of the space object:	Communications satellite
Expected operational life:	Approximately 15 years

AsiaSat 6

Name of the space object:	AsiaSat 6
Owner/operator:	Asia Satellite Telecommunications Limited 12/F Harbour Centre, 25 Harbour Road, Wanchai, Hong Kong, China
International designation:	2014-052A
Date and location of the launch:	7 September 2014 UTC Cape Canaveral Air Force Station, Florida, United States
Nodal period:	23 hours 56 minutes 4 seconds
Inclination:	± 0.1 degrees
Apogee:	35,796 kilometres
Perigee:	35,775 kilometres

* The registration data are reproduced in the form in which they were received.

Orbital position:	120 degrees East
General function of the space object:	Communications satellite
Expected operational life:	Approximately 15 years



**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 24 February 2015 from the Permanent Mission
of the United Kingdom of Great Britain and Northern Ireland to
the United Nations (Vienna) addressed to the Secretary-General**

The Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information on space object Inmarsat-5 F2 (see annex).

V.15-05399 (E) 060815 070815



Please recycle The recycling symbol, consisting of three chasing arrows forming a triangle.

Annex**Registration data on a space object launched by the United Kingdom of Great Britain and Northern Ireland*****Inmarsat-5 F2****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	2015-005A
Name of space object:	Inmarsat-5 F2
State of registry:	United Kingdom of Great Britain and Northern Ireland
Date and territory or location of launch:	1 February 2015 at 1231 hours 0 seconds UTC Baikonur Cosmodrome, Kazakhstan
Basic orbital parameters	
Nodal period:	1,436 minutes
Inclination:	0 ± 0.05 degrees
Apogee:	35,786.2 kilometres
Perigee:	35,786.0 kilometres
General function of space object:	Communications satellite

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position:	305 degrees East (after completion of in-orbit testing at 340 degrees East)
Space object owner or operator:	Inmarsat Global Ltd.
Launch vehicle:	Proton Breeze M

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.



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**Note verbale dated 19 March 2015 from the Permanent Mission of
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United Nations (Vienna) addressed to the Secretary-General**

The Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit additional information on space objects Skynet 4C, Skynet 4E, Skynet 4F, Skynet 5A, Skynet 5B, Skynet 5C and Skynet 5D (see annex).

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Annex**Additional information on space objects launched by the United Kingdom of Great Britain and Northern Ireland*****Skynet 4C****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	1990-079A
Name of space object:	Skynet 4C
State of registry:	United Kingdom of Great Britain and Northern Ireland
Registration document:	ST/SG/SER.E/243
Other launching States:	France
Date and territory or location of launch:	30 August 1990 UTC Guiana Space Centre, Kourou, French Guiana
Basic orbital parameters	
Nodal period:	1,436.219 minutes
Inclination:	13.221 degrees
Apogee:	35,804.951 kilometres
Perigee:	35,773.044 kilometres
General function of space object:	Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position:	-1 degree East
Change of supervision of the space object	
Date of change in supervision:	1 January 2015 UTC
Identity of the new owner or operator:	Airbus Defence and Space Ltd.
Space object owner or operator:	Airbus Defence and Space Ltd.
Launch vehicle:	Ariane 4

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Skynet 4E**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	1999-009B
Name of space object:	Skynet 4E
State of registry:	United Kingdom
Registration document:	ST/SG/SER.E/378
Other launching States:	France
Date and territory or location of launch:	26 February 1999 UTC Guiana Space Centre, Kourou, French Guiana
Basic orbital parameters	
Nodal period:	14,36.172 minutes
Inclination:	11.474 degrees
Apogee:	35,800.822 kilometres
Perigee:	35,775.329 kilometres
General function of space object:	Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position:	6 degrees East
Change of supervision of the space object	
Date of change in supervision:	1 January 2015 UTC
Identity of the new owner or operator:	Airbus Defence and Space Ltd.
Change of orbital position	
Previous orbital position:	35.5 degrees East
New orbital position:	6 degrees East
Space object owner or operator:	Airbus Defence and Space Ltd.
Launch vehicle:	Ariane 4

Skynet 4F**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator:	2001-005B
Name of space object:	Skynet 4F

State of registry:	United Kingdom
Registration document:	ST/SG/SER.E/398
Other launching States:	France
Date and territory or location of launch:	7 February 2001 UTC Guiana Space Centre, Kourou, French Guiana
Basic orbital parameters	
Nodal period:	1,436.005 minutes
Inclination:	7.781 degrees
Apogee:	35,796.433 kilometres
Perigee:	35,773.160 kilometres
General function of space object:	Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position:	-34 degrees East
Change of supervision of the space object	
Date of change in supervision:	1 January 2015 UTC
Identity of the new owner or operator:	Airbus Defence and Space Ltd.
Space object owner or operator:	Airbus Defence and Space Ltd.
Launch vehicle:	Ariane 4

Skynet 5A

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	2007-007B
Name of space object:	Skynet 5A
State of registry:	United Kingdom
Registration document:	ST/SG/SER.E/519
Other launching States:	France
Date and territory or location of launch:	11 March 2007 UTC Guiana Space Centre, Kourou, French Guiana
Basic orbital parameters	
Nodal period:	1,436.149 minutes
Inclination:	0.000 degrees
Apogee:	35,802.775 kilometres

Perigee: 35,772.460 kilometres
 General function of space object: Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position: 6 degrees East
 Change of supervision of the space object
 Date of change in supervision: 1 January 2015 UTC
 Identity of the new owner or operator: Airbus Defence and Space Ltd.
 Space object owner or operator: Airbus Defence and Space Ltd.
 Launch vehicle: Ariane 5

Skynet 5B

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator: 2007-056B
 Name of space object: Skynet 5B
 State of registry: United Kingdom
 Registration document: ST/SG/SER.E/554
 Other launching States: France
 Date and territory or location of launch: 14 November 2007 UTC
 Guiana Space Centre, Kourou, French Guiana

Basic orbital parameters

Nodal period: 1,436.178 minutes
 Inclination: 0.000 degrees
 Apogee: 35,806.398 kilometres
 Perigee: 35,769.972 kilometres
 General function of space object: Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position: 25 degrees East
 Change of supervision of the space object
 Date of change in supervision: 1 January 2015 UTC
 Identity of the new owner or operator: Airbus Defence and Space Ltd.

Change of orbital position
Previous orbital position: 53 degrees East
New orbital position: 25 degrees East
Space object owner or operator: Airbus Defence and Space Ltd.
Launch vehicle: Ariane 5

Skynet 5C

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator: 2008-030A
Name of space object: Skynet 5C
State of registry: United Kingdom
Registration document: ST/SG/SER.E/555
Other launching States: France
Date and territory or location of launch: 12 June 2008 UTC
Guiana Space Centre, Kourou,
French Guiana
Basic orbital parameters
Nodal period: 1,436.064 minutes
Inclination: 0.000 degrees
Apogee: 35,796.926 kilometres
Perigee: 35,774.988 kilometres
General function of space object: Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position: -17.8 degrees East
Change of supervision of the space object
Date of change in supervision: 1 January 2015 UTC
Identity of the new owner or operator: Airbus Defence and Space Ltd.
Space object owner or operator: Airbus Defence and Space Ltd.
Launch vehicle: Ariane 5

Skynet 5D**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator: 2012-075A
Name of space object: Skynet 5D
State of registry: United Kingdom
Registration document: ST/SG/SER.E/690
Other launching States: France
Date and territory or location of launch: 19 December 2012 UTC
Guiana Space Centre, Kourou,
French Guiana

Basic orbital parameters

Nodal period: 1,436.258 minutes
Inclination: 0.000 degrees
Apogee: 35,807.419 kilometres
Perigee: 35,772.069 kilometres

General function of space object: Military communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position: 53 degrees East
Change of supervision of the space object
Date of change in supervision: 1 January 2015 UTC
Identity of the new owner or operator: Airbus Defence and Space Ltd.
Space object owner or operator: Airbus Defence and Space Ltd.
Launch vehicle: Ariane 5



**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 8 April 2015 from the Permanent Mission of
Mexico to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of Mexico to the United Nations (Vienna), in accordance with articles III and IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to inform the Secretary-General of the entry into its national registry of the Mexican satellite Eutelsat 115 West B (E115WB), whose owner is the company Satélites Mexicanos, S.A. de C.V. (Eutelsat Americas) (see annex). The satellite has already been registered in the database maintained by the Mexican Space Agency.



Annex

Registration data on a space object launched by Mexico*

E115WB (Satmex 7)

State of registry:	Mexico
Name of the space object:	E115WB (Satmex 7)
Date and territory or location of launch:	1 March 2015 UTC/GMT-4 Launch Complex 40 (SLC-40), Cape Canaveral Air Force Station, Florida, United States of America
Basic orbital parameters	
Geostationary orbit location:	114.9 degrees West
Inclination:	0 ± 0.05 degrees
Longitudinal tolerance:	± 0.05 degrees
General function of space object:	Communications satellite
Date of decay/re-entry/deorbit:	20 December 2030 (expected date)
Additional voluntary information for use in the Register of Objects Launched into Outer Space	
Space object owner or operator:	Satélites Mexicanos, S.A. de C.V. (Eutelsat Americas)
Launch vehicle:	Falcon-9 v1.1
Website:	www.spacex.com
Technical details for E115WB	
Orbital position:	14.9 degrees West
Number of transponders:	12 C-band 34 Ku-band
Date of launch:	1 March 2015 2301 hours UTC/GMT-4
Entry into service:	October 2015
Estimated useful life:	15 years
Type:	Communications satellite
Satellite platform:	702SP (small platform)

* The registration data are reproduced in the form in which they were received.

Dimensions of satellite

Spacecraft length:	32.6 metres
Spacecraft width:	8.3 metres
Spacecraft height:	4.8 metres
Deployed area of solar arrays:	51.7 square metres

Orbit type:	Geostationary
Geostationary orbit altitude:	36,000 kilometres
Stabilization mode:	Triaxial
Precision maintenance:	East/West ± 0.05 degrees North/South ± 0.05 degrees
Precision of antenna positioning:	Antenna pointing ≤ 0.1 degrees
Weight of satellite:	Mass 221.5 kilograms
Launch vehicle:	Falcon-9 v1.1

Transponders

<i>Band</i>	<i>Number of transponders</i>	<i>Bandwidth per transponder (MHz)</i>	<i>Bandwidth (MHz)</i>
C	12	72	72
Ku	34	21/36 MHz	11/54 MHz and 2/56 MHz